

Inventor: Hakansson et al
Serial No.: 09/741,739
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Examiner: Chaney
Group Art Unit: 1745

In the Claims:

Claims 1-29 (Previously cancelled)

30. (Currently amended) Construction comprising at least two metallic layers wherein a first metallic layer, sensitive to hydrogen embrittlement, is joined to a second metallic layer, and wherein a mesh, providing venting channels between said first and second metallic layers, is physically attached ~~joined~~ to, and in between, said first and second metallic layers.

31. (Previously presented) Construction according to claim 30, wherein a third metallic layer is joined to, and in between, said first and second metallic layer, and wherein the mesh, is joined to, and in between, the second and the third metallic layers.

32. (Previously presented) Construction according to claim 31 wherein a fourth metallic layer is joined to, and in between, the third and the first metallic layers.

33. (Previously presented) Construction according to claim 30 wherein the channels formed have a diameter from about 0.01 μm to about 1000 μm .


34. (Previously presented) Construction according to claim 30 wherein the first metallic layer is selected from the group consisting of Ti, Zr, Nb, Ta and alloys thereof.

35. (Previously presented) Construction according to claim 31 wherein the first, the third, and the second layers form an anode, an intermediate layer, and a cathode providing a bipolar electrode.

36. (Previously presented) Construction according to claim 31 wherein the hydrogen permeability is lower in the third layer than in the second layer.

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37. (Previously presented) Electrochemical cell characterized in that it comprises an electrode as defined in claim 35.

 Claim 38 (Previously cancelled)

39. (Previously presented) A construction for ventilation of hydrogen gas, obtained by a method comprising joining a first metallic layer, sensitive to hydrogen embrittlement, to a second metallic layer, and interposing therebetween said layers and physically attaching ~~joining~~ thereto, a mesh, said mesh forming venting channels for ventilation of hydrogen gas.
